## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1	1. (Currently amended) A computer controlled method in a provisioning
2	device in a networked computer system comprising an execution mechanism
3	configured to execute the method, the method comprising:
4	establishing communication between the provisioning device and the
5	network device over a preferred channel, wherein the preferred channel is a
6	bidirectional, location-limited channel which has a demonstrative identification
7	property and an authenticity property;
8	pre-authenticating said network device, wherein pre-authenticating said
9	network device involves:
10	exchanging key commitment information between said
11	provisioning device and said network device over said bidirectional
12	preferred channel;
13	exchanging keys between said provisioning device and said
14	network device over a bidirectional channel-that does not have to be the
15	preferred channel other than the preferred channel; and
16	verifying the received keys using the received key commitment
17	information on both the said provisioning device and said network device;
18	providing provisioning information to said network device over said
19	bidirectional preferred channel, wherein the provisioning information comprises:
20	a first set of provisioning information which is used exclusively to
21	establish secure and authenticated communication between the

22	provisioning device and the said network device using a second channel
23	wherein the second channel need not be location-limited; and
24	other provisioning information comprising at least one of
25	application-specific information and device-specific assignment
26	information;
27	whereby said network device can automatically configure itself for secure
28	communication over a network responsive to said first and other provisioning
29	information, wherein the secure communication can be over the second channel.

- (Original) The computer controlled method of claim 1, wherein said
   provisioning information comprises network configuration information.
- (Original) The computer controlled method of claim 1, further comprising receiving a public key from said network device;
   verifying said public key with said key commitment information; and automatically provisioning said network device with a credential authorized by a credential issuing authority.
- 4. (Original) The computer controlled method of claim 3, further comprising
   establishing proof that said network device is in possession of a private
   key corresponding to said public key.
- 1 5. (Original) The computer controlled method of claim 3, wherein said 2 credential issuing authority is a certification authority and said credential 3 is a public key certificate.

1 2 3	6.	(Original) The computer controlled method of claim 3, wherein the step of automatically provisioning is responsive to authorization from a registration agent.
1	7-8	(Canceled).
1 2 3	9.	(Original) The computer controlled method of claim 1, wherein the network is a wireless network, and wherein said provisioning device is a wireless access point.
1 2 3 4 5 6 7	10.	(Original) The computer controlled method of claim 9, further comprising: receiving a wireless communication; determining whether said wireless communication originated from said network device or from a second network device that was not provisioned by said wireless access point; and routing said wireless communication responsive to the step of determining.
1 2 3 4 5	11.	(Original) The computer controlled method of claim 10, wherein the step of routing comprises:  choosing a selected channel from a secure channel and an insecure channel responsive to the step of determining; and sending said wireless communication through said selected channel.
1 2	12.	(Original) The computer controlled method of claim 1, wherein said provisioning device is in communication with a credential issuing

authority.

3

1	13.	(Currently amended) A computer-readable storage medium storing
2	instru	actions that when executed by a computer cause the computer to perform a
3	metho	od to provision a network device, the method comprising steps of:
4		establishing communication between the provisioning device and
5		said network device over a preferred channel, wherein the preferred
6		channel is a bidirectional, location-limited channel which has a
7		demonstrative identification property and an authenticity property;
8		pre-authenticating said network device, wherein pre-authenticating
9		said network device involves:
10		exchanging key commitment information between said
11		provisioning device and said network device over said bidirectional
12		preferred channel;
13		exchanging keys between said provisioning device and said
14		network device over a bidirectional channel that does not have to be the
15		preferred channel other than the preferred channel; and
16		verifying the received keys using the received key commitment
17		information on both the said provisioning device and said network device;
18		providing provisioning information to said network device over
19		said bidirectional preferred channel, wherein the provisioning information
20		comprises:
21		a first set of provisioning information which is used exclusively to
22		establish secure and authenticated communication between the
23		provisioning device and the said network device using a second channel
24		wherein the second channel need not be location-limited; and
25		other provisioning information comprising at least one of
26		application-specific information and device-specific assignment
27		information;

28		whereby said network device can automatically configure itself for	
29		secure communication over a network responsive to said first and other	
30		provisioning information, wherein the secure communication can be over	
31		the second channel.	
1	14.	(Original) The computer-readable storage medium of claim 13, further	
2		comprising	
3		receiving a public key from said network device;	
4		verifying said public key with said key commitment information; and	
5		automatically provisioning said network device with a credential	
6		authorized by a credential issuing authority.	
1	15.	(Original) The computer-readable storage medium of claim 13, wherein	
2		the network is a wireless network, and wherein said provisioning device is	
3		a wireless access point.	
1	16.	(Currently amended) An apparatus for provisioning a network device	
2	comprising:		
3		at least one port configured to establish a preferred channel;	
4		a preferred communication mechanism configured to be able to	
5	establi	sh communication with and said network device over said preferred	
6	channe	channel, wherein the preferred channel is a bidirectional, location-limited channel	
7	which	has a demonstrative identification property and an authenticity property;	
8		a pre-authentication mechanism configured to be able to:	
9		receive key commitment information over said preferred	
10		channel from said network device;	

11	exchange keys between said provisioning device and said	
12	network device over a bidirectional-channel that does not have to be	
13	the preferred channel other than the preferred channel; and	
14	verify the received keys using the received key	
15	commitment information on both said provisioning device and said	
16	network device;	
17	a provisioning mechanism configured to provide provisioning	
18	information to said network device over said bidirectional preferred channel,	
19	wherein the provisioning information comprises:	
20	a first set of provisioning information which is used	
21	exclusively to establish secure and authenticated communication between	
22	the provisioning device and the said network device using a second	
23	channel, wherein the second channel need not be location-limited; and	
24	other provisioning information comprising at least one of	
25	application-specific information and device-specific assignment	
26	information;	
27	whereby said network device can automatically configure itself for	
28	secure communication over a network responsive to said first and other	
29	provisioning information, wherein the secure communication can be over the	
30	second channel.	
1	17. (Original) The apparatus of claim 16, wherein said provisioning	
2	information comprises network configuration information.	
1	18. (Original) The apparatus of claim 16, further comprising	
2	a key reception mechanism configured to receive a public key;	
3	a key verification mechanism configured to verify said public key	
4	with said key commitment information; and	

3		a credential provisioning mechanism configured to automatically
6		provide a credential authorized by a credential issuing authority.
1	19.	(Original) The apparatus of claim 18, further comprising a key exchange
2		mechanism configured to be able to perform a key exchange protocol with
3		said network device.
1	20.	(Original) The apparatus of claim 18, wherein said credential issuing
2		authority is a certification authority and said credential is a public key
3		certificate.
1	21-22	(Canceled).
1	23.	(Original) The apparatus of claim 22, further comprising:
2		a packet receiver mechanism configured to receive a wireless
3		communication;
4		a determination mechanism configured to determine whether said
5		wireless communication received by the packet receiver mechanism
6		originated from said network device or from a second network device that
7		was not provisioned by said wireless access point; and
8		a router mechanism configured to route said wireless communication
9		responsive to the determination mechanism.
1	24.	(Original) The apparatus of claim 23, wherein the router mechanism
2		further comprises:
3		a channel selection mechanism configured to choose a selected
4		channel from a secure channel and an insecure channel responsive to the
5		determination mechanism; and

- 6 a transmission mechanism configured to send said wireless
- 7 communication through said selected channel.
- 1 25. (Original) The apparatus of claim 16, further comprising a non-preferred
- 2 communication mechanism that can be used to communicate with a
- 3 credential issuing authority.
- 1 26-66. (Canceled)